

Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

1) $y = x^2 - 2$

A) Create a table of values.

x	y	
-2	2	$\rightarrow (-2, 2)$
-1	-1	$\rightarrow (-1, -1)$
0	-2	$(0, -2)$
1	-1	$(1, -1)$
2	2	$(2, 2)$

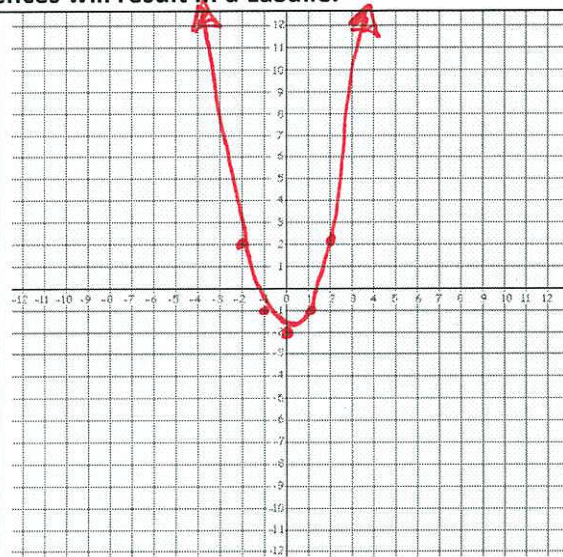
B) Graph the equation

C) Identify the axis of symmetry: y-axis

D) Identify the vertex: (0, -2) Max? or Min?

E) Identify the domain: All #'s $(-\infty, \infty)$

& range: $\{-2, \infty\}$



2) $y = -\frac{1}{4}x^2 + 1$

A) Create a table of values.

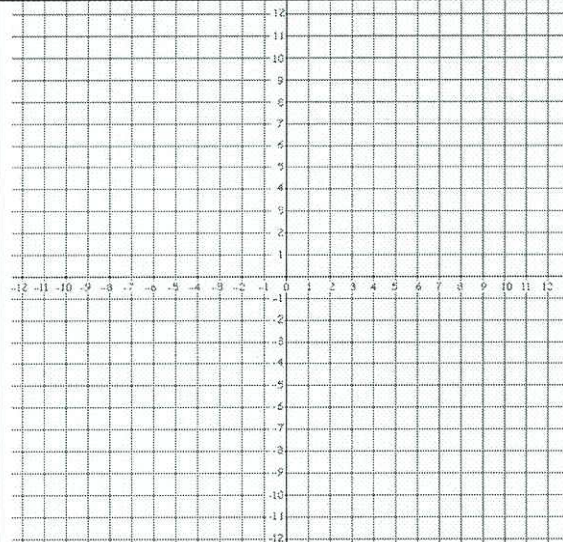
B) Graph the equation

C) Identify the axis of symmetry: _____

D) Identify the vertex: _____ Max? or Min?

E) Identify the domain: _____

& range: _____



3) $y = -2x^2 + 5$

A) Create a table of values.

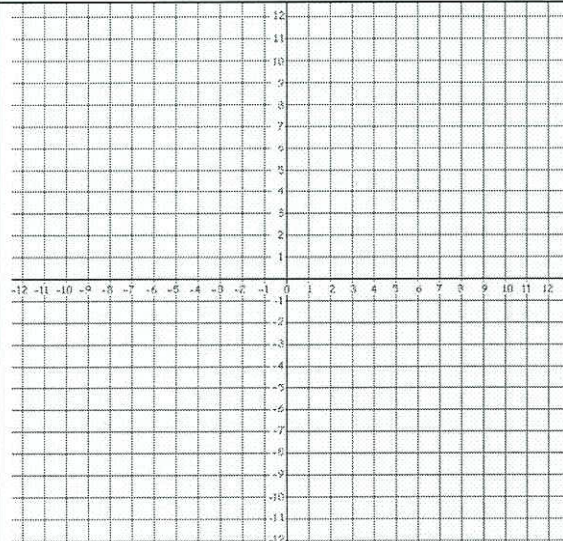
B) Graph the equation

C) Identify the axis of symmetry: _____

D) Identify the vertex: _____ Max? or Min?

E) Identify the domain: _____

& range: _____



4) Write an equation of the line that passes through point P and is parallel to the line with the given equation. $P(-5, 14)$ and $y=3x+12$.

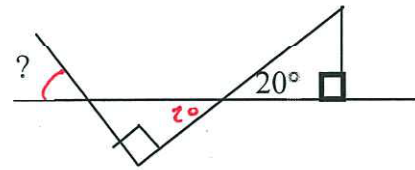
Step 1: Find slope

Step 2: Find y-intercept

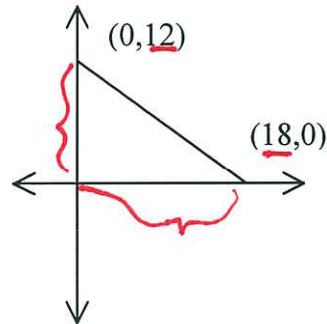
Step 3: Put it all together

6) If a rectangle has a length of 3 times the width, and the area is 432 units squared, find the perimeter of the rectangle.

5) Find the missing angle:



7) Find the area of the following triangle



8) Given diameter of a circle is 42 cm. Find
a. The area of the circle

b. The circumference of the circle

9) A circle has an area of 1,963.495 meters squared.
a. Find the radius of the circle, to the nearest ones' place.

b. With the radius that you found, find the circumference

PUSH IT TO THE LIMIT.